



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
(SEIAA), ODISHA.**

**5RF-2/1, Unit - IX, Bhubaneswar - 751022
E-mail : seiaaorissa@gmail.com**

Ref. No. 6361/SEIAA

Date 30.11.18

File No. 27973 /14-NCP-V/06-2018

To

Mr. M. V. Shashi Kumar,
G.M. (Operation)
M/s Trident Properties Pvt. Ltd.
HIG-25, 3rd Floor, Jayadev Vihar,
Opposite Hotel Pal Heights,
Bhubaneswar-751013

Sub: Proposal for proposed Fourteen Blocks of (S+4) Storied Residential Apartment Building and two Storied Club Cum Society Building at Paikarapur, Bhubaneswar with total built up area 70174.51 M² of M/s Trident Properties Pvt. Ltd.- environmental clearance regarding.

Ref: Your online application for environmental clearance vide file no. SIA/OR/NCP/27973/2018 dated 29.06.2018.

Sir,

This has reference to your application seeking environmental clearance of the project proposal mentioned above. The proposal has been appraised on the basis of the documents enclosed with the application such as Form-1, Form-IA, Conceptual Plan / EMP, Final EIA/EMP Report and clarifications furnished to SEAC/SEIAA in response to their observations.

Background:

1. The project involves construction of Fourteen Blocks of (S+4) Storied Residential Apartment & Two Storied Club-Cum-Society Building (500 dwelling units, LIG& EWS- 166) with a total built up area of 70174.51 m² in total plot area of 42711.57 m² at village Paikarapur, Tehsil Bhubaneswar, District Khurda (Odisha) by M/s Trident Properties Pvt. Ltd.
2. The project site is permitted for residential use as per approved Master Plan of the area. Planning/building permission was obtained from Bhubaneswar Development Authority.

3. The said project/activity is covered under category B of item 8(a) of Schedule to the EIA Notification, 2006, and requires prior EC from the SEIAA in Odisha based on the appraisal by SEAC.
4. The proposed site is located at Paikarapur Village, Bhubaneswar, Odisha. The Geographical coordinate of the project site is: Latitude - 20° 15' 40.20" N & Longitude - 85° 44' 53.19" E. The proposed project site is coming in Plot No. 1808,1809, 1810, 1811, 1812, 1813, 1814, 1815, 1817, 1818, 1819,1820, 1784, 1786, 1787 & 933 of Paikarapur Village, Dist- Khurda, Odisha.
5. The Building details of the project are as follows:

Area details	Area in m ²
Plot Area	42711.57
Stilt Parking Area	18638.85
Open Area (3.06 %)	1310.34
Total Parking Area provided	19949.19
Ground Coverage (40.34 %)	17230.68
Total Green Area (22.74 %)	9715.93
Road Area (28.12 %)	12013.56
Swimming Pool Area (0.49 %)	211.20
MSW Site (0.35 %)	151.0
Sewage Treatment Plant (0.77 %)	330.71
Open Area (4.09 %)	1748.15
Total Built up Area (Proposed)	70174.51
FAR	1.64

6. **Requirement for the project:**

(i) **Area requirement:**

For this project– 42711.57 sqm of land is required, which has already been acquired.

(ii) **Power requirement:**

The daily power requirement for the proposed complex is preliminarily assessed as 4607 KW. Source from CESU of Odisha State Electricity Board. In order to meet emergency power requirements during the grid failure, there is provision of 5 nos. of DG sets of (1x125 KVA + 1x15 KVA + 1x200KVA + 1x40 KVA + 1 x45 KVA) capacities for power back up in the Residential Building Project.

For energy conservation, there will be 90 nos. of Solar Lighting poles (@72 Watt) has been proposed for Street & common area solar lighting, soEnergy conservation by using Solar Street Lighting = 90 x 72 = 6480 watt = 6.5 KW.

Energy conservation by using Solar lighting for common area = 210 KW

Total Energy Conservation = (210 + 6.5) KW = 216.5 KW

Total Energy saving = 216.5/4607 = 0.0469 x 100 = 4.69 %

(iii) **Water requirement:**

Fresh make up of 304.1 m³/ day will be required for the project which will be sourced from Ground water/PHED Supply. Waste water of 364.92 KLD will be treated in a STP of 500 KLD capacity, which includes primary, secondary

and tertiary treatment. After treatment the treated water will be discharge to the drain.

Rain Water will be harvested through 22 nos. of recharging pits.

(iv) **Fire fighting Installations:**

Fire fighting system will be installed as per recommendation of the Fire fighting Officer, Odisha and as per the guideline of NBC (part-4).

(v) **Green Belt Development:**

Green belt will be developed over an area of 9715.93 sqm which is 22.74 % of the plot area; by using the local species like Coconut, Mango, Nageswar, Neem, Ashok, Polanga, Jamu, Bela, Pijilu, Kaniara, Tagar, Hena, etc.

(vi) **Solid Waste Management:**

From the residential complex solid waste in form of food waste from kitchen and miscellaneous waste will be generated @ 0.4 kg/capita/day, which will be about $3270 \times 0.4 = 1308.0$ kg/day. The generated solid waste from the residential complex will be segregated as biodegradable and non-biodegradable. This will be collected in separate coloured beans. Proper waste management practices will be adopted during the collection, storing and disposal of the generated solid waste.

Waste generated from road sweeping will be @ 0.1 kg/capita/day, which will be about $3270 \times 0.1 = 327.0$ kg/day. Solid waste from sweeping and Dry Garbage containing non biodegradable wastes like polythene bags, metal, ceramic Waste, glass etc. shall be stored in separate garbage bin and send to approved agency for final disposal. The biodegradable waste will be converted to manure by an organic waste convertor, which will be used for landscaping.

Sl. No.	Category	Counts (heads)	Waste generated
1.	Residents	3270 @ 0.4 kg/day	1308.0 kg/day
2.	Road sweeping	3270 @ 0.1 kg/day	327.0 kg/day
3.	STP sludge		183.0 kg/day
Total Solid Waste Generated			1818.0 kg/day

(vii) **Estimated Project Cost:**

Total Capital Cost = ` 90 Crores.

Environment Management Cost = ` 110 Lakhs.

- The application for seeking EC was submitted to SEAC/SEIAA on 13th November, 2014. The proposal was considered by the SEAC in its meetings held on 23rd December, 2014, 23rd February, 2015, 30th July, 2015, 19th-20th April, 2016, 19th July, 2016 & 17th January, 2017.
- The SEAC in its meeting held on 17.01.2017, noted that the boundary wall was already completed with storm water drain and also piling below ground, and recommended the project for grant of Environmental Clearance after compliance to conditions applicable on violation projects as per MoEF & CC, Govt. of India OM dated 12.12.2012 and 27.06.2013.

9. The SEIAA, vide letter dated 10th March, 2017 directed the proponent for suspension of construction at site and follow procedure as per MoEF & CC, Govt. of India OM dated 12.12.2012 and 27.06.2013.
10. The proponent subsequently submitted the proposal to MoEF & CC, Govt. of India on 09.04.2017 as violation case as per MoEF & CC, Govt. of India Notification S.O. 804 (E) dated 14.03.2017.
11. The proponent made a detailed presentation before the Expert Appraisal Committee (Violation) on 16.01.2018. The Expert Appraisal Committee (EAC), after detailed deliberations on the proposal in terms of the provisions of the MoEF & CC Notification dated 14th March, 2017, confirmed the case to be of violation of the EIA Notification, 2006 and recommended the following:-
 - (a) The State Government/SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986, and further no consent to operate or occupancy certificate to be issued till the project is granted EC.
 - (b) Grant of Terms of Reference for undertaking EIA and preparation of Environment Management Plan (EMP) along with public hearing.
 - (c) The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the EAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.
12. The MoEF & CC, Govt. of India (Impact Assessment Division) had issued ToR vide letter no. 23-24/2017-IA-III, dated 06.03.2018 for undertaking EIA and preparation of Environment Management Plan (EMP).
13. The MoEF & CC, Govt. of India vide letter no. 23-24/2017-IA-III, dated 06.03.2018 had also requested to the Secretary, F&E Department, Govt. of Odisha to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986 for violation of the EIA Notification, 2006.
14. Based on ToR issued by MoEF & CC, Govt. of India, the proponent with the help of consultant had prepared draft EIA/EMP report and submitted the same to State Pollution Control Board, Odisha on 17.03.2018 for Public Hearing.
15. The MoEF & CC, Govt. of India had issued Office Memorandum No. Z-11013/22/2017-IA-II (M), dated 16.03.2018, which stipulates that the violation case for Category B project will be considered by the respective SEIAA/SEAC only & Public Hearing is not required for building project.
16. The project proponent has re-applied to SEIAA, Odisha on 06.04.2018 along with draft EIA/EMP report prepared as per Terms of Reference (ToR) issued by the MoEF & CC, Govt. of India. The SEIAA, Odisha forwarded the proposal for appraisal as per MoEF & CC, Govt. of India Notification S.O. 804 (E) dated 14.03.2017.
17. The proponent along with the consultant M/s Centre for Envotech & Management Consultancy Pvt. Ltd. Bhubaneswar, Odisha made a detailed presentation before

- the committee on the EIA/EMP report prepared as per Terms of Reference (ToR) issued by the MoEF&CC, Govt. of India.
18. The SEAC observed that the proponent/consultant complied with the ToR points of MoEF & CC, Govt. of India.
 19. The SEAC in its meeting held on 01.06.2018 observed the following:
 - (a) The proponent has applied for Environmental Clearance for violation case in a separate new online file in which they have not uploaded the EIA/EMP report prepared as per Terms of Reference (ToR) issued by the MoEF&CC, Govt. of India. However, they have circulated hard copy of the EIA/EMP report to the Members.
 - (b) The Director (Env.)-cum-Special Secretary to Govt., F&E Deptt., Govt. of Odisha had requested to the Collector and District Magistrate, Khordha vide letter no. ENV-I-31/2018/8061, dated 09.04.2018 to take legal action against the project proponent under the provision of section 19 of the Environment (Protection) Act, 1986 for violation of the EIA Notification, 2006.
 - (c) The Collector and District Magistrate, Khordha has initiated legal proceeding against the project proponent vide Environment Misc. Case No. 06/2018 as communicated to the proponent vide PR No.290, dated 27.04.2018.
 - (d) The proponent has only constructed boundary wall, storm water drain and also piling below ground without obtaining Environmental Clearance.
 - (e) Since substantial construction work of the project has not been carried out by the project proponent, there is no ecological damage to the environment.
 - (f) The proposal was earlier recommended by the SEAC for grant of Environmental Clearance.
 20. The SEAC in its meeting held on 01.06.2018 again discussed on the proposal and observed that the proponent has complied the observation of SEAC.
 21. The Final EIA/EMP study report has been prepared by a NABET Accredited / NABL Accredited Consultant namely M/s Centre for Envotech& Management Consultancy Pvt. Ltd. Bhubaneswar, Odisha.
 22. Detailed assessment of Ecological Damage, Remediation Plan and Natural and Community Resource Augmentation Plan has been incorporated in Chapter - 11 of the EIA report.
 23. Estimated cost of damage / remediation as suggested and submitted by the proponent in the Final EIA / EMP report on cost assessment were discussed.
 24. An amount of ` 97,00,900/- (Rupees ninety seven lakh nine hundred only) has been estimated in the EIA / EMP report towards the cost of assessment of Environmental / Ecological damage due to violation as well as Natural and Community Resource Augmentation Plan.
 25. The Committee also observed and opined the following:
 - (i) The proponent has only constructed boundary wall, storm water drain and also piling below ground without obtaining Environmental Clearance. Since substantial construction work of the project has not been carried out by the project proponent, there is no ecological damage to the environment.



- (ii) There is no specific guideline issued by the MoEF&CC, Govt. of India for assessment of Environmental and Ecological Damage as well as estimation of cost for remediation plan as well as Natural and Community Resource Augmentation Plan.
- (iii) In the absence of any guidelines, the cost as suggested by the Committee above to be taken into account for remediation plan as well as Natural and Community Resource Augmentation Plan. However, the proponent has to abide by the guidelines if issued by the MoEF&CC, Govt. of India in future and accordingly the proponent has to comply.
- (iv) The Director (Env.)-cum-Special Secretary to Govt., F&E Deptt., Govt. of Odisha had requested to the Collector and District Magistrate, Khordha vide letter no. ENV-I-31/2018/8061, dated 09.04.2018 to take legal action against the project proponent under the provision of section 19 of the Environment (Protection) Act, 1986 for violation of the EIA Notification, 2006.
- (v) The Collector and District Magistrate, Khordha has initiated legal proceeding against the project proponent vide Environment Misc. Case No. 06/2018 as communicated to the proponent vide PR No. 290, dated 27.04.2018.

After detailed discussion, the SEAC recommended for grant of Environmental Clearance for the project valid for a period of 7 years with the following specific conditions in terms of the provisions of the MoEF&CC, Govt. of India notification dated 14th March, 2017 in addition to other stipulations.

- (i) The SEAC recommended for an amount of ` 4,85,045/- (Rupees four lakh eight five thousand and forty-five)(i.e. @ 5% of the cost of assessment of Environmental / Ecological damage proposed by the proponent)towards Remediation plan and Natural and Community Resource Augmentation plan as substantial construction work of the project has not been carried out by the project proponent, there is no ecological damage to the environment.
- (ii) The project proponent shall be required to submit a bank guarantee of an amount of ` 4,85,045/- (Rupees four lakh eight five thousand and forty-five) towards Remediation plan and Natural and Community Resource Augmentation plan with the State Pollution Control Board, Odisha prior to the grant of Environmental Clearance.
- (iii) The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC, Odisha and approval of the regulatory authority (i.e. SEIAA, Odisha).
- (iv) The proponent has to abide by the guidelines if issued by the MoEF & CC, Govt. of India in future for assessment of Environmental and Ecological Damage as well as estimation of cost for remediation plan as well as Natural and Community Resource Augmentation Plan.

The proponent have submitted the bank guarantee of Rs.4,85,045/- to SEIAA vide letter no.nil dt.17.11.2018 towards cost for remediation plan as well as Natural and Community Resource Augmentation Plan. The proponent will implement the

remediation plan as well as Natural and Community Resource Augmentation Plan as submitted in the Final EIA/EMP Report.

Considering the information furnished by the proponent and appraisal report of the State Expert Appraisal Committee (SEAC) along with their recommendation, the State Environment Impact Assessment Authority (SEIAA) after considering the proposal and recommendations of SEAC, Odisha hereby accords Environmental Clearance in favour of the project valid for a period of 7 (seven) years under the provisions of EIA Notification 2006 and subsequent amendments thereto subject to strict compliance of all stipulated conditions, as follows.

Stipulated Conditions:

Implementation of the remediation plan as well as Natural and Community Resource Augmentation Plan

1. The project proponent shall implement the remediation plan as well as Natural and Community Resource Augmentation Plan as submitted in the Final EIA/EMP Report in Chapter - 11.
2. The project proponent shall harvest rainwater equivalent to an amount in the existing premises as well as nearby areas.
3. The project proponent shall provide separate storage bins for municipal waste collection and treat in Organic waste converter to produce composited particles for use as manure.
4. Greenbelt shall be developed along the periphery on 20% of total land, that is, 9715.93 sqmt area with suitable species.
5. Solar street light shall be provided on the road side. Internal lighting through energy efficient LED lights.

Part A - Specific Conditions:

6. Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
7. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc. as per National Building Code including protection measures from lightning etc.
8. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
9. The project proponent shall ensure that the guidelines for building and construction projects issued vide this Ministry's OM NO.19-2/2013-IA.III dated 9th June, 2015, are followed to ensure sustainable environmental management.

Topography and Natural Drainage

10. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other Sustainable Urban Drainage Systems (SUDS) are allowed for maintaining

the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.

Water Requirement, Conservation, Rain Water Harvesting, and Ground Water Recharge

11. As proposed, fresh water requirement from Ground water / PHED water supply shall not exceed 304.1 KLD.
12. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
13. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF & CC and SEIAA, Odisha along with six monthly Monitoring reports.
14. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
15. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.
16. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
17. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
18. The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 22 (twenty-two) nos. of rain water harvesting recharge pits shall be provided.
19. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering. The proponent shall also obtain permission from Water Resources Department, Govt. of Odisha for drawal of water.
20. A complete plan for rainwater harvesting so as to harvest the quantum of rain water at the proposed site during the rainy days equal to the total quantity of water to be consumed for various usages by the building project in a full year shall be drawn up and implemented.

Solid Waste Management

21. The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
22. Disposal of muck during construction phase shall not create any adverse effect on

the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

23. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. Adequate area shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from group housing project will be sent to dumping site.
24. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
25. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the Municipal Solid Waste generated from project shall be obtained.

Sewage Treatment Plant

26. Sewage shall be treated in the STP of capacity 500 KLD with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, gardening and DG Cooling. As proposed, excess treated water shall be used for nearby construction site or will discharge to municipal sewer with prior permission of competent authority.
27. A certificate from the competent authority shall be obtained for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point.
28. No sewage or untreated effluent water would be discharged through storm water drains.
29. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the SEIAA, Odisha before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
30. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

Energy

31. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. Outdoor and common area lighting shall be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
32. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should

be in place before project commissioning. Used CFLs, TFL and LED shall be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.

33. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher. Follow super ECBC requirement of ECBC 2017 and provide compliance report.
34. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.
35. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
36. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project shall be submitted.

Air Quality and Noise

37. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution. Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
38. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
39. Notification GSR 94(E) dated 25.01.2018 of MoEF & CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
40. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG



sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.

41. For indoor air quality the ventilation provisions as per National Building Code of India shall be provided.
42. Ambient noise levels shall conform to residential standard both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.

Green Cover

43. No tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 m² of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 9715.93m² area (22.74% of plot area) shall be provided for green area development.

Top Soil Preservation and Reuse

44. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

Transport

45. A comprehensive mobility plan, as per Ministry of Urban Development best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - Traffic calming measures
 - Proper design of entry and exit points.
 - Parking norms as per local regulation
46. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project.
47. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

48. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.

Environment Management Plan

49. An Environmental Management Plan (EMP) shall be prepared and implemented to ensure compliance with the environmental conditions specified above. A dedicated Environment Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, Landscaping, Rain Water Harvesting, Energy efficiency and conservation, water efficiency and conservation, solid waste management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall also keep the record of environment monitoring and those related to the environment infrastructure.

Others

50. Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
51. A First Aid Room shall be provided in the project both during construction and operations of the project.
52. The company shall draw up and implement corporate social Responsibility plan as per the Company's Act of 2013.
53. As per the MoEF & CC, Govt. of India Office Memorandum F.No.22-65/2017-IA.III dated 1st May 2018, the project proponent is required to prepare and implement Corporate Environment Responsibility (CER) Plan. As per para 6(II) of the said O.M. appropriate funds shall be earmarked for the activities such as infrastructure creation for drinking water supply, sanitation, health, education, skill development, roads, cross drains, electrification including solar power, solid waste management facilities, scientific support and awareness to local farmers to increase yield of crop and fodder, rain water harvesting, soil moisture conservation works, avenue plantation, plantation in community areas etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

Part B- General Conditions

1. A copy of the Environmental Clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.
2. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to the SEIAA, Odisha and MoEF & CC, Govt. of



- India and its concerned Regional Office.
3. Officials from the Regional Office of MoEF & CC, Bhubaneswar who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection.
 4. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, Odisha.
 5. The SEIAA, Odisha reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
 6. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
 7. These stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and the EIA Notification, 2006.
 8. The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the SEIAA, Odisha. The advertisement shall be made within Seven days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the Regional Office of MoEF&CC, Bhubaneswar.
 9. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
 10. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZillaParisad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
 11. The proponent shall submit/upload six monthly reports on the status of compliance of the stipulated EC conditions, including results of monitored data on their website, Ministry website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF & CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.



12. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by E-mail.

Yours faithfully,


Member Secretary

Memo No 6362/SEIAA /Dt. 30.11.18
Copy to

1. Joint Secretary (Environment), Ministry of Environment, Forests and Climate Change Govt. of India, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi-110003 for information.
2. Additional Chief Secretary, Forests & Environment Dept., Government of Odisha for information.
3. Member Secretary, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for information.
4. Additional Principal Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Chandrasekharapur, Bhubaneswar for information.
5. Chairman, Central Pollution Control Board, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032 for information.
6. Member Secretary, CGWA, 18/11, Jamnagar House, ManSingh Road, New Delhi-110011 for information.
7. Copy to the Collector, Khordha for information.
8. Chairman/Member / Member Secretary, SEIAA for information.
9. Chairman, SEAC/Member Secretary, SEAC, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for information.
10. Guard file for record.


Member Secretary